

DATE: February 13, 2020

DEPARTMENT OF GENERAL SERVICES  
BUREAU OF PRE-CONSTRUCTION  
1800 HERR STREETS  
HARRISBURG, PENNSYLVANIA

ADDENDUM NO. 5

on

**PROJECT NO. DGS C-0948-0082 PHASE 001**

**PROJECT TITLE - Forum Building - Construction and Related Improvements**

**PROFESSIONAL:**

Murphy & Dittenhafer Architects

226 W. Market St.

York, PA, 17401

**If you submitted a bid through e-Builder prior to this Addendum being issued, your bid has been discarded and you must re-submit your bid(s) through e-Builder prior to the bid opening date and time. Please see Section 4.C. of the Instruction to Bidder**

ADMINISTRATIVE CHANGES - ALL CONTRACTS

1. Request for Proposal (RFP) Section 2.6: CLARIFICATION - The BDISBO SDB/VBE program changes have been partially completed. Please continue to reference the information in the Supplier Search database in determining whether a firm is an SDB or VBE.
2. Addendum No. 4 Item 6: CLARIFICATION - Please note that Item 6 states to disregard the DGS SDB verification certificate. Instead, please reference the information in the Supplier Search database to determine whether a firm is an SDB or VBE. SDVBES are considered both SDBs and VBES and may be used toward satisfying both the SDB participation goal and the VBE participation goal.

Refer to the following pages for the continuation of Addendum No. 5

## ADMINISTRATIVE CHANGES – ALL CONTRACTS

- Item 1** Request for Proposal (RFP) Section T-1C: CLARIFICATION – For the General Contractor, the Qualification Statement for the “Terrazzo” subcontract shall relate to the scope of work included in Section 094100 Terrazzo Repair and Refinishing.
- Item 2** Request for Proposal (RFP) Section T-1C: CLARIFICATION – For the General Contractor, the Qualification Statement for the “Interior Marble” subcontract shall relate to the scope of work included in Section 045210 Marble Repair, Cleaning and Restoration.
- Item 3** Request for Proposal (RFP) Section T-1C: CLARIFICATION – For the General Contractor, the Qualification Statement for the “Millwork” subcontract shall relate to the scope of work included in Section 064010 Woodwork Repair & Restoration.
- Item 4** Request for Proposal (RFP) Section 2.6: CLARIFICATION - All Proposers need to review the SDB Participation information and the VBE Participation information included in the RFP. It is the Proposer’s decision regarding which box to check on the SDB-2 SDB Participation Submittal form and the VBE-2 VBE Participation Submittal form and then complete and submit all required documentation with your Proposal.

## GENERAL CHANGES – ALL CONTRACTS

- Item 1** Page 010400-6 Coordination and Control: Paragraph 1.21B: REVISE to read:  
*“B. Each Prime Contractor shall maintain, at its cost, a suitable office on the premises. The Contractor shall...”.*  
CLARIFICATION – There shall be no separate contractor offices (“job trailers”) outside of the building. It is presumed that space for Contractors’ offices will be available within the building for the duration of the construction project...even though that will entail one or more moves during the course of the project. Contractors are reminded that in any case, they are responsible for maintenance of suitable heating and air-conditioning, electrical, telephone and internet service within all the Contractors’ offices and DGS Construction Office.
- Item 2** Page 010100-1 Article 1.5 A.: CLARIFICATION – Pursuant to the paragraphs added to this Article under Addendum No. 2, Contractors are advised that the interior “Renovation” work to be executed under Base Bid No. 3 by the General (.1) Contractor is described on Sheets R-405 through R-414, and these Sheets shall be referenced by the other Prime Contractors to inform scope and extent of their related work as influenced by General (.1) scope and extent.

## SPECIFICATION CHANGES – CONTRACT NO. DGS C-0948-0082 PHASE 1.1

- Item 1** Page 04 42 00-5 Article 2.3 A: CLARIFICATION - The stone cladding spec calls for “Dolomitic” limestone, though the existing may be Indiana oolitic limestone. Samples of limestone will be reviewed for the best color and texture match during the submittals phase. The contractor shall source as required to match existing. Similarly for granite cladding.

**Item 2 Page 05 51 00-6:** Add Article 2.8 C. for ladder guards at ladders extending more than 8' above base platform. Clarification: Interior ladders are primed, exterior ladders are galvanized.

**C. LADDER SAFETY CAGES**

1. *Fabricate ladder safety cages to comply with ANSI A14.3. Assemble by welding or with stainless steel fasteners.*
2. *Provide primary hoops at tops and bottoms of cages and spaced not more than 20 feet (6 m) o.c. Provide secondary intermediate hoops spaced not more than 48 inches (1200 mm) o.c. between primary hoops.*
3. *Galvanize exterior ladder safety cages, including brackets and fasteners.*
  - i. *Prime interior ladder safety cages, including brackets and fasteners, with zinc-rich primer.*

**Item 3 Section 05 53 00 – Metal Gratings:**

1. Page 05 53 00-4: Add Article 2.2 ALUMINUM for mill finish aluminum gratings:

**2.2 ALUMINUM**

- A. *General: Provide alloy and temper recommended by aluminum producer for type of use indicated, with not less than the strength and durability properties of alloy, and temper designated below for each aluminum form required.*
- B. *Extruded Bars and Shapes: ASTM B221 (ASTM B221M), alloys as follows:*
  1. *6061-T6 or 6063-T6, for bearing bars of gratings and shapes.*
  2. *6061-T1, for grating crossbars.*
2. Page 05 53 00-4: Add Article 2.5 C. for mill finish aluminum gratings to be used at top of cooling tower vault, at-grade vent for emergency generator, and at-grade covers for areaways at north side of Forum Building as follows (re-set present Articles C-F as D-G accordingly):
  - C. *Pressure-Locked, Rectangular-Bar Aluminum Grating: Fabricated by pressing rectangular flush-top crossbars into slotted bearing bars.*
    1. *Bearing Bar Spacing: 1-3/16 inches o.c.*
    2. *Bearing Bar Depth: 1-1/2 inches or as required to comply with structural performance requirements.*
    3. *Bearing Bar Thickness: minimum 3/16 inch or as required to comply with structural performance requirements.*
    4. *Crossbar Spacing: 4 inches o.c.*
    5. *Traffic Surface: Plain.*
    1. *Aluminum Finish: Mill finish.*

**Item 4 Page 06 40 23-6:** Add the following Article 2.3 H.:

- H. *"Countertop Support Brackets: Provide fabricated steel plate brackets (surface and concealed types as indicated on Drawings), w/ exposed surfaces in painted finish as selected by Professional from manufacturer's standards and as required to support countertops without supporting base cabinets. Brackets shall be CounterBalance®*

*Workstation Brackets, A & M Hardware, Inc. or equal by others as approved by Professional."*

**Item 5** Section 08 31 13 Access Doors and Frames: Add this Section to the Project Specification.

**Item 6** Section 08 34 83 Floor Doors: Add this Section to the Project Specification.

**Item 7** Section 08 41 13 Aluminum Framed Entrances and Storefronts: Delete this Section from the Project Specification.

Note that all glass office entrances, and demountable aluminum framed office fronts, are specified in Sections 08 42 26 - All Glass Entrances and 10 22 19 Demountable Walls, respectively.

**Item 8** Section 08 42 26: All Glass Entrances (Revised): Replace the previously issued Section with the revised Section.

**Item 9** Section 08 87 00 – Window Film: Add this Section to the Project Specification.

**Item 10** Section 08 90 00 –Louvers and Vents: Add this Section to the Project Specification.

**Item 11** Section 09 41 00 - Terrazzo Repair and Re-finishing: CLARIFICATION – Traditional or epoxy terrazzo systems may be employed for infill and repair of existing terrazzo floors. Basis of acceptance shall be "match existing."

**Item 12** Page 09 51 13-4: Add the following Articles 2.3 5. and 6. to include ceiling types ACT-5 and ACT-6:

5. *ACT-5 Same as ACT-1 (Armstrong Dune Second Look No. 2722, 2x4, Angled Tegular), but add Kinetics QuietTile (or equal approved by Professional) overlay above ceiling panel installation.*
6. *ACT-6 Armstrong Lyra Vector fine texture No. 8499 (4x4) & 8495 (2x4), ¼" Reveal with 15/16" Vector. Type and Form: Type XII, Fiberglass with factory applied latex painted finish; Form 2, and Pattern E.*
  - a. *Color: White.*
  - b. *LR: 0.90*
  - c. *NRC: Not less than 0.90.*
  - d. *AC: 190*
  - e. *Edge Detail: ¼" Reveal with 15/16" Vector.*
  - f. *Thickness: 7/8 inch.*
  - g. *Size: 48 by 48 inches, and 24 by 48 inches.*
  - h. *Grid: Prelude 15/16 inch.*
  - i. *Fire Rating: Class A*

Note: Ceiling Types ACT-5 and ACT-6 apply to the following spaces:

Conference 301 – ACT-5 (2x4)  
Conference 302 – ACT-5  
Conference 303 – ACT-5  
Conference 304 – ACT-6 (4x4 and 2x4)  
Conference 305 – ACT-6  
Conference 330 - ACT-5  
Conference 381 - ACT-5  
Conference 382 - ACT-5

Conference 401 – ACT-5  
Conference 402 – ACT-5  
Conference 403 – ACT-5  
Conference 404 – ACT-6  
Conference 451 – ACT-5  
Conference 452 – ACT-5

Conference 501 – ACT-5  
Conference 502 – ACT-6  
Conference 503 – ACT-6  
Conference 522 – ACT-6  
Conference 525 – ACT-6  
Conference 528 – ACT-6  
Conference 530 – ACT-6

**Item 13** Page 09 65 13-2: Add New Article 2.2 RESILIENT WALL BASE for 4" cove vinyl base Type VB-2 (Note VB-1 is not used), and re-assign following Articles 2.3 and 2.3 to 2.3 and 2.4 respectively:

**2.2 RESILIENT WALL BASE (VB-2) Assume two colors for project.**

- A. Manufacturers:*  
*Armstrong World Industries, Inc.*  
*Johnsonite (Basis-of-Design).*  
*Roppe Corporation*  
*Or equal approved by Professional*
- B. Descriptions*
- 1. Wall Base: ASTM F 1861.*
  - 2. Type (Material Requirement): TV (Vinyl)*
  - 3. Group (Manufacturing Method): II (Layered).*
  - 4. Style: Cove (with top-set toe).*
  - 5. Minimum Thickness: 0.125 inch.*
  - 6. Height: 4 inches.*
  - 7. Lengths: Coils in manufacturer's standard length.*
  - 8. Surface: Smooth.*

**Item 14** Section 09 66 23 - Resinous Matrix Terrazzo Flooring: Add this Section to the Project Specification for terrazzo Types TZ-1 and TZ-2

**Item 15** Page 09 68 10-5: Add Article 2.1 A. 4 (move present para. 4 to 5) for carpet tile Type CPT-4 as follows:

- 4. CPT-4 (Basis of Design)*
- a. Manufacturer: Interface*
  - b. Collection: Simple Abstraction*
  - c. Number: 139370AK00*
  - d. Style: Painted Gesture*
  - e. Color: (TBD)*
  - f. Size: 25cm x 1m*

- g. *Installation:* Ashlar
- h. *Location:* Executive Office 316 – See Floor Plan

**Item 16** Section 10 21 13 – Toilet Compartments: Add this Section to the Project Specification

**Item 17** Section 10 22 19 - Demountable Walls: CLARIFICATION: Contractors are advised that doors and hardware, and glass, built into demountable wall and office front systems shall be provided in conformance with Project Specification Sections 08 14 16 Flush Wood Doors, 08 71 00 Door Hardware & 08 80 10 Interior Glazing; and sourced same as other doors and hardware and glazing in the Project.

**Item 18** Page 10 28 13-4: At Article 3.3 A., insert the following Toilet Accessories Schedule:

<u>Item</u>	<u>Basis of Design</u>	<u>Comments</u>
Hand Dryer	Dyson Airblade V9	GC Provided GC installed.
Custom Stainless Steel Wall Guard	Dyson (accessory)	GC Provided GC installed.
Toilet Tissue Dispenser	N/A	Furnished by Department. Installed by GC.
Soap Dispenser	N/A	Furnished by Department. Installed by GC.
Grab Bars	Bobrick 6806	GC Provided GC installed.
Frameless Glass Mirror	Sizes on Drawings	GC Provided GC installed.
Sanatory Napkins Disposal	Bobrick B-35139	GC Provided GC installed. Containers to fit 8.75" x 2.75" x 8.5"
Sanatory Napkin Vendor	N/A	Furnished by Department. Installed by GC.
Shower Seat (B020)	Gamco 5181	GC Provided GC installed.
Changing Station	Gamco BCS-2	GC Provided GC installed.

**Item 19** Section 12 24 13 – Roller Window Shades:

1. Revise Article 1.2 B. 1.: Window shades shall be both "Manual" and "Motorized" operation (Refer to Schedule).
2. Revise Article 2.2 A.: To include "Manually" operated.
3. Revise Article 2.2 B.: As "Standard Bracket/Surface Mounted" with snap-lock fascia panel. (Reference Section Detail 5 on Drawing R-335).
4. Revise Article 2.5 A.: "Refer to Drawings R-333 and R334 Window Replacement Schedule for windows to receive shades and for designation of manual (M) or motorized/powered (P) operation."

**SPECIFICATION CHANGES – CONTRACT NO. DGS C-0948-0082 PHASE 1.2**

**Item 1** Page 23 09 00-32 Add Sub-Paragraph 2.8.U Air Flow Measurement Stations to the Project Manual to read:

*U. Air Flow Measurement Stations: Provide airflow measuring stations where shown or specified in the sequences of operation. Airflow measuring stations will operate using the principal of thermal dispersion technology. Each probe array shall consist of one or more multi-point measuring probes and a single microprocessor-based transmitter. Each ducted airflow sensor shall have an operating range of 0- 5,000 FPM, with a NIST traceable accuracy of + or – 3% of reading for velocity measurement and 0.1 deg. F for temperature measurement.*

*Sensor probes shall be constructed of gold anodized, 6063 aluminum alloy tube with 304 stainless steel mounting bracket. Individual sensors shall be field serviceable without the need for system recalibration.*

*Each transmitter shall be capable of averaging as many as thirty-two sensors. Transmitter outputs shall be dual analog 4-20mA for airflow and temperature with BACnet communication interface.*

*Airflow measuring devices shall be Ebtron GTx , Air Monitor ELECRA-flo, or equal as approved by the Professional.*

**Item 2** Pages 23 09 93 9 Thru 22 Add the following to the Demand Ventilation or Ventilation paragraph of each air handling unit sequence. *"Outside air duct shall be provided with an air flow measuring station for measuring the quantity of outside air at each air handling unit. Provide 4-20mA analog input from the air measurement station to the BAS. The control point shall be a real time graphical display with historical trending capability.*

**Item 3** Page 23 09 93-35 Modify Sub-Paragraph A.1 to read:

*The .4 Contractor shall furnish and install the lighting control panel and shall be responsible for all control wiring from each keypad or sensor to the network controller.*

**Item 4** Page 23 09 93-36: Modify Sub-Paragraph 1.31.A.1 to read:

*The new power meter is furnished with the switchgear by the .4 Contractor and is provided with Modbus communication protocol.*

**Item 5** Points List 14 of 15 Snowmelt Control: Delete Zone Moisture point from the project.

#### SPECIFICATION CHANGES – CONTRACT NO. DGS C-0948-0082 PHASE 1.3

**Item 1** PD-108, 109 and 111: CLARIFICATION – Existing sanitary riser to Restroom 316-B will be retained thru 1<sup>st</sup> and 2<sup>nd</sup> floors and above Library ceiling

#### SPECIFICATION CHANGES – CONTRACT NO. DGS C-0948-0082 PHASE 1.4

**Item 1 -** SECTION 28 23 00 - VIDEO SURVEILLANCE SYSTEM

ADD NEW PARAGRAPH 2.14 as follows:

**2.14** VIDEO SURVEILLANCE SERVERS, STORAGE AND SOFTWARE

**A.** Provide two (2) 72 Terabyte (TB) Video Management Software (VMS) recording servers. VMS servers shall use PE R5x0 servers with 72 TB internal storage using RAID6, Windows server standard Edition, 8G RAM, Rack Mounted (2U) Effective Storage. VMS

- Servers shall be Verint VMS-RE-72TB-R6. Provide servers in server cabinet is 1<sup>st</sup> floor Security / Fire Command Room in Forum Building.
- B. Provide VMS 7.5 software camera licenses for ENTERPRISE Master Server Systems. Provide one (1) license for each camera provided. Provide Verint VMS-1CAM-ENT-7.5.
  - C. Provide VMS Fail-Over software camera licenses for VMS ENTERPRISE Systems. Provide one (1) license for each camera provided. Provide Verint VMS-1FOC-ENT.
  - D. Provide all programming, setup, configuration, start-up, commissioning, testing and demonstration.

DRAWING CHANGES – CONTRACT NO. DGS C-0948-0082 PHASE 1.1

- Item 1** Sheet AD-110 – BASEMENT FLOOR DEMOLITION PLAN – ENLARGED PLAN A – Drawing was modified to remove Room B050 door and portion of wall for new doors.
- Item 2** Sheets AD-118 through 125: Revised Demo Note D24 as follows:  
*"Carefully remove existing picture rail for restoration and re-use or salvage retention by the Using Agency/Department. As alternative to restoration and re-use, Contractor may secure reproduction formed steel moldings from Dahlstrom Roll Form, Jamestown, NY (or approved equal supplier) for new and replacement installations. Reference Section Detail 7/R-428 for Picture Rail installation."*
- Item 3** Sheets AD-120 through 125: Remove D11 (existing rectangular metal base conduit) demolition call-outs from plans at room sides of retained curved corridor walls. This base channel condition does not exist at these locations.
- Item 4** Sheet A-110 – BASEMENT FLOOR PLAN 0 ENLARGED PLAN A – Drawings was modified to add new double doors for room B050 (Elevator Sump Pump Room).
- Item 5** Sheet A-111 – BASEMENT FLOOR PLAN – ENLARGED PLAN B – Clarification - The new 14x8 duct should discharge thru the new CMU infill of the former relief louver into the existing main air relief vault. The air relief has been re-directed through a new vault extension to new air relief louver opening onto the new truck dock area.
- Item 6** Sheet A-114 – GROUND FLOOR PLAN – ENLARGED PLAN B – Has been modified to add dimensions of the radius walls along the new ramp.
- Item 7** Sheet A-304 – LOADING DOCK ENLARGED PLANS – Has been modified to add more detail.
- Item 8** Sheet A-305 – LOADING DOCK CANOPY DETAILS – Wall section was added to clarify the Exhaust Vault scope of work.
- Item 9** Sheet A-306 – LOADING DOCK SECTION – The Loading Dock Section and Loading Dock Elevation were modified to align joints with louvers.
- Item 10** Sheet A-407 – AREAWAY DETAILS – The notes have been updated to clarify the finishes for the grate, railings and mechanical platforms.
- Item 11** Sheet A-411 – DRESSING ROOM ENLARGED PLANS AND ELEVATIONS – Countertop support has been modified.